N14.1

PHASE I REPORT
ENGINEERING INVESTIGATIONS AND EVALUATIONS AT INACTIVE HAZARDOUS WASTE DISPOSAL SITES

932086

Rodeway Inn
Niagara County, NY

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233
Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste
Norman H. Nosenchuck, P.E., Director

ENGINEERING-SCIENCE
in association with
DAMES & MOORE

SEPTEMBER 1984

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EXECUTIVE SUMMARY

Rodeway Inn

OBJECTIVE

The purpose of this two phase program is to conduct engineering investigations and evaluations at inactive hazardous waste disposal sites in New York State in order to calculate a Hazard Ranking System (HRS) score for each site and estimate the cost of any recommended remedial action. During the initial portion of this investigation (Phase I) all available data and records combined with information collected from a site inspection were reviewed and evaluated to determine the adequacy of existing information for calculating an HRS score. On the basis of this evaluation, a Phase II Work Plan was prepared for collecting additional HRS data (if necessary), evaluating remedial alternatives and preparing a cost estimate for recommended remedial action. The results of the Phase I study for this site are summarized below and detailed in the body of the report.

SITE BACKGROUND

The Rodeway Inn site is located on Buffalo Avenue in the City of Niagara Falls, Niagara County, New York. The NYS site code is 932086. The Rodeway Inn is now a part of the Best Western chain and has been renamed the Red Jacket Inn. The site is owned by the Castaways Motel Company of Niagara Falls; Mr. Dan Latawiec is the General Manager of the Inn. The site borders on the Niagara River and includes a portion of the adjacent La Salle Yacht Club. Concern centers over the use of broken concrete as fill in the construction of the breakwater at the river edge. A recent site visit and interview with Mr. Latawiec failed to find any health or environmental problems.

ASSESSMENT

Insufficient data was available to complete a final HRS scoring. The preliminary HRS scoring. The preliminary HRS scoring was:

S_M	= 0.00	S_A	= 0.00
S_{GW}	= 0.00	S_{FE}	= 0.00
S_{SW}	= 0.00	S_{DC}	= 0.00

All scores were zero due to the unknown waste characteristics. Most final route scores would most likely remain the same due to their low (zero) target values. The single exception is the surface water route which has a high target value due to the proximity of a Canadian water intake on the Niagara River.

RECOMMENDATIONS

The following recommendations are made for the completion of Phase II:

- o groundwater monitoring system consisting of one up-gradient and two down-gradient wells
- o surface water monitoring system consisting of three stations
- o sample analyses should include metals and a GC/MS scan
- o air monitoring survey with an OVA meter
- o additional research/interviews to determine waste characteristics

The estimated manhour requirements to complete Phase II are 312, while the estimated costs are $22,829.

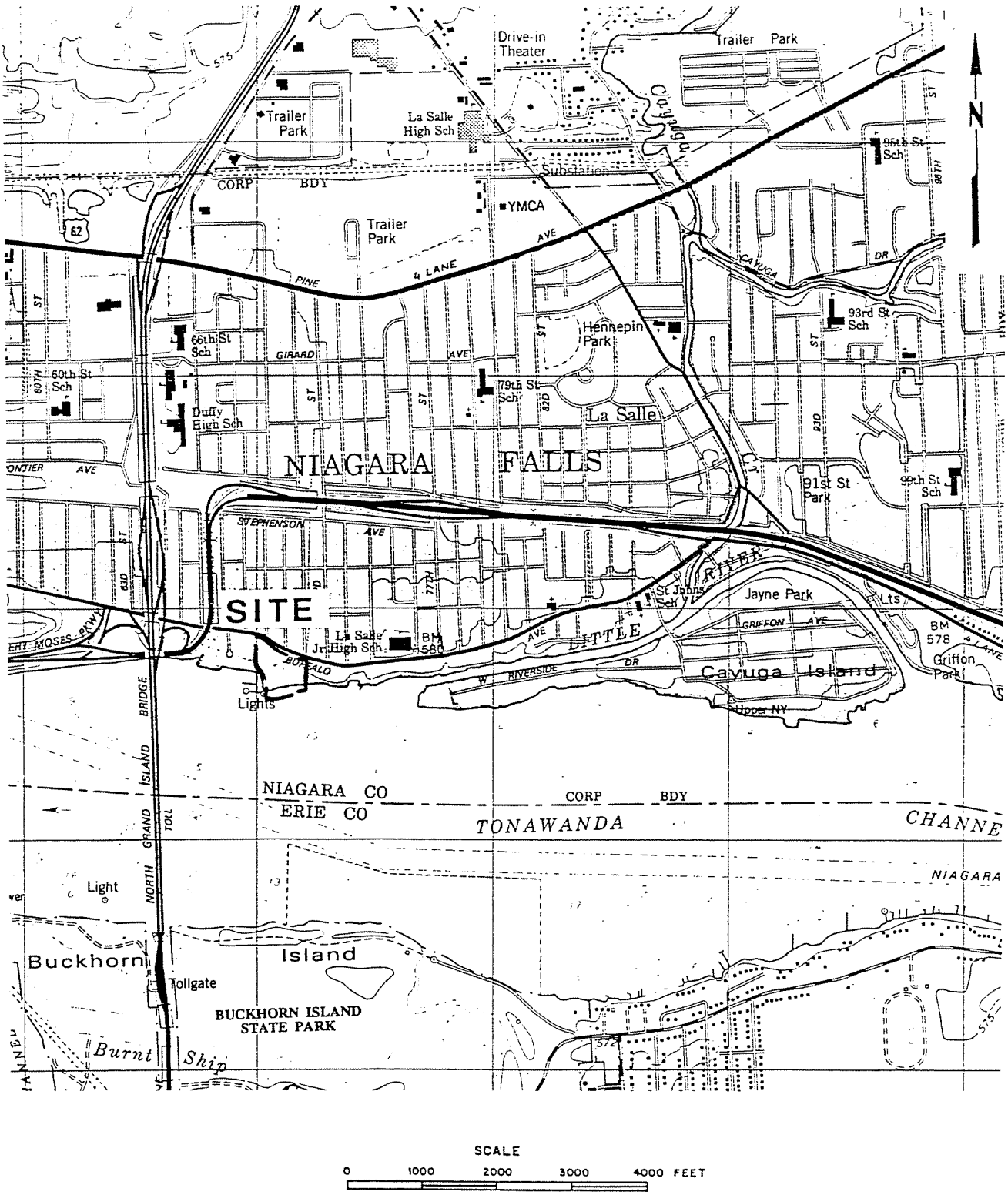
SECTION II
SITE DESCRIPTION

SECTION II

SITE DESCRIPTION

Rodeway Inn

The Rodeway Inn site is located on Buffalo Avenue, Niagara Falls, Niagara County, New York. The site is located in a residential area adjacent to the Niagara River. The site covers approximately two acres of land reclaimed from the Niagara River. The western portion of the property is owned by the La Salle Yacht Club while the eastern portion is owned by the Red Jacket Inn. Broken concrete from the Olin Chemical Corporation was used as fill in the reclaimed area. Concern centers on the possibility that the concrete was contaminated with hazardous materials and their potential migration to the river.



SITE LOCATION MAP
RODEWAY INN / LASALLE YACHT CLUB

REFERENCE: BASE TAKEN FROM U.S.G.S. 7.5 MIN. TOPOGRAPHIC MAP, TONAWANDA WEST, NY (1980) QUADRANGLE

FIGURE 1

SECTION 3

SECTION III

HRS SCORING

HRS COVER SHEET

Facility name: Rodeway Inn/La Salle Yacht Club

Location: Niagara Falls, NY

EPA Region: II

Person(s) in charge of the facility: Dan Latawiec

General Manager

Red Jacket Inn

Name of Reviewer: John Kubarewicz/Eileen Gilligan **Date:** August 27, 1983

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Broken concrete from Olin Corporation was used as fill material along the river

To date there are no known environmental or health problems.

Scores: $S_M = 0.00$ ($S_{gw} = 0.00$ $S_{sw} = 0.00$ $S_a = 0.00$)

$S_{FE} = 0.00$

$S_{DC} = 0.00$

GROUND WATER ROUTE WORK SHEET

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section
1 Observed Release	0 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	
Net Precipitation	0 1 (2) 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 (3)	1	3	3	
Physical State	(0) 1 2 3	1	0	3	
Total Route Characteristics Score			11	15	
3 Containment	0 1 2 (3)	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	[0] 3 6 9 12 15 18	1	[0]	18	
Hazardous Waste Quantity	[0] 1 2 3 4 5 6 7 8	1	[0]	8	
Total Waste Characteristics Score			0	26	
5 Targets					3.5
Ground Water Use	(0) 1 2 3	3	0	9	
Distance to Nearest Well/Population Served	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			0	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} = 0			

SURFACE WATER ROUTE WORK SHEET

Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 (1) 2 3	1	1	3	
Distance to Nearest Surface Water	0 1 2 (3)	2	6	6	
Physical State	(0) 1 2 3	1	0	3	
Total Route Characteristics Score			7	15	
3 Containment	0 1 2 3	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	[0] 3 6 9 12 15 18	1	[0]	18	
Hazardous Waste Quantity	[0] 1 2 3 4 5 6 7 8	1	[0]	8	
Total Waste Characteristics Score			0	26	
5 Targets					4.5
Surface Water Use	0 1 2 (3)	3	9	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 (24) 30 32 35 40	1	24	40	
Total Targets Score			33	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	64,350	
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 0		

AIR ROUTE WORK SHEET

Air Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	○	45	5.1

Date and Location:

Sampling Protocol:

If line 1 is 0, the S_a = 0. Enter on line 5.
If line 1 is 45, then proceed to line 2.

2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Targets Score				39	
4 Multiply 1 x 2 x 3				35,100	

5 Divide line 4 by 35,100 and multiply by 100 S_a = ○

DIRECT CONTACT WORK SHEET

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Sectio
1 Observed Incident	(0) 45	1	(0)	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	(0) 1 2 3	1.	(0)	3	8.2
3 Containment	(0) 15	1	(0)	15	8.3
4 Waste Characteristics Toxicity	[0] 1 2 3	5	[0]	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 (4) 5	4	16	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			16	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				21,600	
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 0		

Fire and Explosion Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	

5 Divide line 4 by 1,440 and multiply by 100 -11- SFE = ( )

WORKSHEET FOR COMPUTING S_M

	S	S^2
Groundwater Route Score (S_{gw})	0.00	0.00
Surface Water Route Score (S_{sw})	0.00	0.00
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0.00
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0.00
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} \,/\, 1.73 = S_M =$		0.00

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Rodeway Inn

LOCATION: City of Niagara Falls

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No contaminants detected. No groundwater samples analyzed.

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Shallow aquifer
(Basic geologic knowledge)

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

0.0'
(Site visit, 1983)

Depth from the ground surface to the lowest point of waste disposal/ storage:

Approximately 5' to 10'.
(Based on geologic estimate of site geomorphology prior to dump/fill activity)

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

32"
(USDOC Climatic Atlas of US, 1979)

Mean annual lake or seasonal evaporation (list months for seasonal):

24"
(USDOC Climatic Atlas of US, 1979)

Net precipitation (subtract the above figures):

8"

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

None - only waste materials.

Permeability associated with soil type:

Waste materials = $>10^{-3}$ cm/sec
(Lambe, T.W. and Whitman, R.V. (1969). Soil Mechanics, John Wiley and Sons, Inc., New York)

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Solid.

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill.

Method with highest score:

Unlined landfill

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Unknown.

Compound with highest score:

Not applicable.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown.

Basis of estimating and/or computing waste quantity:

Not applicable.

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

No uses within 3-mile radius.

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

No wells drawing from aquifer of concern.

Distance to above well or building:

Not applicable.

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Not applicable.

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Not applicable.

Total population served by ground water within a 3-mile radius:

Not applicable.

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No contaminants detected. No surface water samples analyzed.

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2 ROUTE CHARACTERISTICS (USGS Topographic map: Tonawanda West, NY Quadrangle)

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0%

Name/description of nearest downslope surface water:

Niagara River adjacent to site.
(ES/D&M site visit)

Average slope of terrain between facility and above-cited surface water body in percent:

0%

Is the facility located either totally or partially in surface water?

Yes (filled area of river bank)
(ES/D&M site visit)

Is the facility completely surrounded by areas of higher elevation?

No.
(USGS Topographic Map: Tonawanda West Quadrangle)

1-Year 24-Hour Rainfall in Inches

2.0"
(USDOC Tech. Paper No. 40)

Distance to Nearest Downslope Surface Water

0.0 miles
(ES/D&M site visit)

Physical State of Waste

Solid.

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill.

Method with highest score:

Unlined landfill.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Unknown.

Compound with highest score:

Not applicable.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown.

Basis of estimating and/or computing waste quantity:

Not applicable.

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreation
Commercial
Drinking
(ES/D&M site visit)

Is there tidal influence?

No.
(USGS Topographic Map: Tonawanda West Quadrangle)

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Not applicable. None within 2 miles.
(ES/D&M site visit)

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Not applicable.

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

Not applicable.
(NYSDEC Reg. 9 Fish & Wildlife Dept. Conservation)

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Canadian side
1 mile downstream
approx. 10,000 people (based on city size)
(ES/D&M site visit)

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Not applicable.

Total population served:

10,000
(City of Niagara Falls estimate)

Name/description of nearest of above water bodies:

Niagara River
(USGS Topographic Map: Tonawanda West Quadrangle)

Distance to above-cited intakes, measured in stream miles.

1 mile.
(USGS Topographic Map: Tonawanda West Quadrangle)

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

Not applicable.
Air quality not monitored.

Date and location of detection of contaminants

Not applicable.

Methods used to detect the contaminants:

Not applicable.

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Not applicable.

Most incompatible pair of compounds:

Not applicable.

Toxicity

Most toxic compound:

Not applicable.

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable.

Basis of estimating and/or computing waste quantity:

Not applicable.

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi (0 to 1 mi) 0 to 1/2 mi 0 to 1/4 mi

3000 to 10,000 people
(USGS Topographic Map: Tonawanda West Quadrangle)

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Not applicable. None within 2 miles.
(USGS Topographic Map: Tonawanda West Quadrangle)

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Not applicable. None within 1 mile.
(NYS Wetlands Map)

Distance to critical habitat of an endangered species, if 1 mile or less:

Not applicable. None within 1 mile.
(NYSDEC Region 9 Dept. of Fish and Wildlife Files)

Land Use

Distance to commercial/industrial area, if 1 mile or less:

0.0 mile.
(ES/D&M site visit)

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Not applicable. None within 2 miles.
(ES/D&M site visit)

Distance to residential area, if 2 miles or less:

0.1 mile
(ES/D&M site visit)

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Not applicable.

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Not applicable.

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Not applicable.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: NYD | 02 SITE NUMBER: 980535132

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
ROOEWAY INN	7001 BUFFALO AVE.				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
NIAGARA FALLS	NY	14304	NIAGARA	063	36

09 COORDINATES: LATITUDE 43° 04' 34.3" | LONGITUDE 79° 58' 59.1"

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
7 29 83 (MONTH DAY YEAR)	☐ ACTIVE ☑ INACTIVE	BEGINNING YEAR _____ ENDING YEAR _____ ✓ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR Engineering-Science (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☑ F. STATE CONTRACTOR Dames & Moore (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
JOHN KUBAREWICZ	ENGINEER	ES	(703)591-7575
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
EILEEN GILLIGAN	GEOLOGIST	D+M	(315)638-2572
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
DON LATAWIEC	GEN. MGR.	NIAGARA FALLS	(716) 283-7612
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☑ PERMISSION ☐ WARRANT	9:15	RAINY

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
JOHN KUBAREWICZ	ENGINEERING-SCIENCE	(703)591-7575

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
KATHRYN GLADDEN		ES	703/591-7575	8 7 83 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER
NYD 980535132

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS UNKNOWN
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
~~SLU~~	~~SLUDGE~~			UNKNOWN, BROKEN
~~OLW~~	~~OILY WASTE~~			CONCRETE FROM OLIN
~~SOL~~	~~SOLVENTS~~			SUSPECTED
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NIAGARA COUNTY DOH (1982)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NYD	986536152

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Unknown

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Potential, site on Niagara River

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No apparent odor

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
NYD 980535132

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No Apparant damage

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Unknown

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
(Spills/Runoff/Standing liquids, Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not apparent

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

Site Inspection

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NYD	980529373

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☑ I. OTHER FILL (Specify)	unknown	

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

< 1 (Acres)

07 COMMENTS

Alleged that broken concrete from Olin Chemical company used to fill area adjacent to river

IV. CONTAINMENT UNKNOWN

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Not visible

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO

02 COMMENTS

unknown

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Niagara County DOH (1982)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☒	B. ☐	A. ☐	B. ☐	C. ☒	A. 1 (mi)
NON-COMMUNITY	C. ☐	D. ☐	D. ☐	E. ☐	F. ☐	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: N/A

03 DISTANCE TO NEAREST DRINKING WATER WELL: N/A (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
0.5 (ft)	SOUTH	0.5 (ft)	UNKNOWN (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

NEAREST INDUSTRIAL WELL > 2 MILES AWAY

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☒ NO	COMMENTS	☐ YES ☒ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
NIAGARA RIVER	☐	0 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 3,000 - 10,000 NO. OF PERSONS	B. 710,000 NO. OF PERSONS	C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 100 FT. (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
21,000	100 FT. (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

OLDER RESIDENTIAL URBANIZED AREA

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
NYD 980535512

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-5} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
20 (ft)	NO SOIL (ft)	NO SOIL	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
8 (in)	2.0 (in)	0 %	N/A	0.0 %

09 FLOOD POTENTIAL A
SITE IS IN <100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. _____ (mi)	B. > 1 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
> 1 (mi)
ENDANGERED SPECIES: AQUILA CHRYSAETOS, HALIAEETUS LEUCOCEPHALUS, FALCO PEREGRINUS

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS	
		PRIME AG LAND	AG LAND
A. ADJACENT (mi)	B. ADJACENT (mi)	C. _____ (mi)	D. > 2 MILES (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SITE IS ON THE SOUTHWEST SIDE OF THE TOWN OF NIAGARA FALLS. SITE IS ADJACENT TO NIAGARA RIVER.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYS ATLAS OF COMMUNITY WATER SYSTEM SOURCES, 1982
USGS TOPOGRAPHIC MAPS

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ND	960533732

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF _____
(Name of organization or individual)

03 MAPS
☐ YES
☐ NO

04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED *(Provide narrative description)*

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NYD	980535132

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
CASTAWAYS MOTEL		c/o W.S. Johnson Bldg. Co., Inc. Main P.O. Box 688		Niagara Falls	NY	14302
La Salle Yacht Club		Buffalo Ave		Niagara Falls	NY	

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Tax Records

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER

II. CURRENT OPERATOR *(Provide if different from owner)*

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY *(If applicable)*

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) *(List most recent first; provide only if different from owner)*

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES *(If applicable)*

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NYD	980536

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
OUN Corp - (suspected)			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Buffalo Ave			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
Niagara Falls	NY		
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Niagara County DOH (1982)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
[illegible]	[illegible]

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE ______ 03 AGENCY ______
04 DESCRIPTION

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
MD 036 [illegible]

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ S. CAPPING/COVERING 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ V. BOTTOM SEALED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ W. GAS CONTROL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ X. FIRE CONTROL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ Z. AREA EVACUATED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ARD	980...

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☑ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER: NYD 986 973 51[illegible]

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
RODEWAY INN	7001 Buffalo Ave.				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
NIAGARA FALLS	NY	14304	NIAGARA	063	36
09 COORDINATES LATITUDE: 43° 04' 24.3"	LONGITUDE: -79° 58' 59.1"				

10 DIRECTIONS TO SITE (Starting from nearest public road)
On Buffalo Ave.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
Castaways Hotel c/o W.S Johnson Bldg. Co. Inc.	MAIN PO BOX NO. 688		
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**
Niagara Falls	NY	14302	( )
07 OPERATOR (If known and different from owner)	**08 STREET** (Business, mailing, residential)		
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**
			( )

13 TYPE OF OWNERSHIP (Check one)
☑ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☑ YES DATE 7 29 83 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☑ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): Engineering -Science

02 SITE STATUS (Check one)
☐ A. ACTIVE ☑ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
_____ (BEGINNING YEAR) | _____ (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Broken concrete from Olin Corporation.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Unknown

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER
JOHN KUBAREWICZ	ENGINEERING-SCIENCE		(703) 591-7575
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER** / **08 DATE**
KATHRYN GLADDEN		ES	(703) 591-7575 / 8 4 83 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NYD	980535732

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS UNKNOWN
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
~~SLU~~	~~SLUDGE~~	—	—	UNKNOWN, BROKEN CONCRETE
~~OLW~~	~~OILY WASTE~~	—	—	FROM OLIN SUSPECTED
~~SOL~~	~~SOLVENTS~~	—	—	
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NIAGARA COUNTY DOH, 1982

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	932086

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NO APPARENT DAMAGE

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

NOT APPARENT

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

SITE INSPECTION

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
NYD 980535513

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ B. SURFACE WATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

POTENTIAL, SITE ON NIAGARA RIVER

01 ☐ C. CONTAMINATION OF AIR
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

NO APPARENT ODOR

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

SECTION IV

SITE HISTORY

SECTION IV

SITE HISTORY

Rodeway Inn

The Rodeway Inn site consists of property that has been reclaimed from the Niagara River by landfill. The land is now occupied partly by the La Salle Yacht Club and partly by the Red Jacket Inn (formerly the Rodeway Inn). The data of the reclamation is unclear but was estimated to have been during the 1940's (NCDOH, 1982). The Interagency Task Force reported that broken concrete from Olin was used as fill material. Site inspections show no evidence of drums or visible problems associated with the landfill. Substrate samples were reportedly taken and analyzed by the USGS on June 29, 1982 and May 29, 1983.

SECTION V

SUMMARY OF AVAILABLE DATA

SECTION V

SUMMARY OF AVALIABLE DATA

Rodeway Inn

REGIONAL GEOLOGY AND HYDROLOGY

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened preexisting valleys, and deposited widespread accumulations of till. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. This region is covered by lake sediments, the most recent being from Lake Iroquois (a larger predecessor to Lake Ontario) and from Lake Tonawanda (an elongate lake which occupied an east-west valley and drained north into Lake Iroquois). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet or deeper water deposition).

Granular deposits in this region frequently act as shallow aquifers, whereas lacustrine clays, as well as tills, often inhibit groundwater movement. However, fine-grained, water-lain sediments, such as silts and clays, frequently contain horizontal laminations and sand seams. These internal features facilitate lateral groundwater movement through otherwise low permeability materials.

SITE GEOLOGY

No subsurface investigations have been performed at the site. The summary is based on our interpretation of USGS topographic maps, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, and investigations on nearby disposal sites.

The site is built on "made land"; thickness of fill may be 5 ft. to 10 ft. Underlying the fill is probably a lacustrine, layered, silt and clay deposit. This unit is underlain by a silty and sandy till which rest on top of the Lockport Dolomite bedrock. The total thickness of the natural soils on the site is probably approximately 15 feet. The bedrock surface may be located about 20 feet below the ground surface.

SITE HYDROLOGY

No wells or borings have been made on the site. This summary is based on our estimates of site geology.

A shallow aquifer probably exists within the fill material and natural site soils. Flow of groundwater through this aquifer is probably south, into the Niagara River.

The dolomite bedrock forms a deep aquifer; the direction of flow is undetermined.

SAMPLING AND ANALYSIS

Substrate samples were collected and analyzed by the USGS on June 1982 and May 29, 1983. Preliminary results of these analyses (excluding sample location) were received at the time of completion of this report (USGS, 1984). These results indicated the presence of high concentrations of iron (3,000-5,000 ppm) and low levels of mercury (10-40 ppb). In addition the USGS tentatively identified the presence of turpene (turpentine) and hydrocarbons, both non-priority pollutants. Since the information available was incomplete (sample location and type) it was not used in this report. However, additional information should be obtained from the USGS during the updating of the Phase II Workplan.

SECTION 6

SECTION VI

ASSESSMENT OF ADEQUACY OF DATA

SECTION VI

ASSESSMENT OF ADEQUACY OF DATA

Rodeway Inn

HRS Data Requirement	Comments on Data
Observed Release	
Ground Water	No available data, field data collection recommended.
Surface Water	No available data, field data collection recommended.
Air	No available data, field data collection recommended.
Route Characteristics	
Ground Water	Data available, adequate for HRS evaluation.
Surface Water	Data available, adequate for HRS evaluation.
Air	Data available, adequate for HRS evaluation.
Containment	Information available, adequate for HRS evaluation.
Waste Characteristics	Information inadequate for HRS evaluation, additional research recommended.
Targets	Information available, adequate for HRS evaluation.
Observed Incident	Information available revealed no report of incident. No further investigation recommended.
Accessibility	Adequate information available.

SECTION VI

ASSESSMENT OF ADEQUACY OF DATA

SECTION VI

ASSESSMENT OF ADEQUACY OF DATA

Rodeway Inn

HRS Data Requirement	Comments on Data
Observed Release	
Ground Water	No available data, field data collection recommended.
Surface Water	No available data, field data collection recommended.
Air	No available data, field data collection recommended.
Route Characteristics	
Ground Water	Data available, adequate for HRS evaluation.
Surface Water	Data available, adequate for HRS evaluation.
Air	Data available, adequate for HRS evaluation.
Containment	Information available, adequate for HRS evaluation.
Waste Characteristics	Information inadequate for HRS evaluation, additional research recommended.
Targets	Information available, adequate for HRS evaluation.
Observed Incident	Information available revealed no report of incident. No further investigation recommended.
Accessibility	Adequate information available.

SECTION 7

SECTION VII

PHASE II WORK PLAN

SECTION VII

PHASE II WORK PLAN

Rodeway Inn

OBJECTIVES

The objectives of the Phase II activities are:

- To collect additional field data necessary to complete the HRS scoring.

- To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.

- To prepare a site investigation report.

The additional field data required to complete the HRS are defined as follows:

Ground Water - A ground water monitoring system consisting of 3 wells is recommended. The wells are to be 20 feet in depth and constructed of 2" PVC pipe. The samples will be analyzed for metals and a GC/MS scan.

Surface Water - A surface water monitoring system consisting of 3 stations is recommended. The samples will be analyzed for metals and a GC/MS scan.

Air - An air monitoring survey with an OVA meter is recommended to test the air quality above the site.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VII-1.

COST ESTIMATE

The estimated manhours required for the Phase II project are presented in Table VII-2 and the estimated project costs by tasks are presented in Table VII-3.

HEALTH AND SAFETY PLAN

The Health and Safety Plan will be submitted as a separate document.

QUALITY ASSURANCE PLAN

The Quality Assurance Plan will be submitted as a separate document.

TABLE VII-1

PHASE II WORK PLAN - TASK DESCRIPTION

Rodeway Inn

	Tasks	Description of Task
TASK II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical studies	No further studies necessary.
II-C	Conduct Boring/Install Monitoring Wells	Install 1 up-gradient and 2 down-gradient wells. The wells are to be 20 feet in depth and constructed of 2" PVC pipe.
II-D	Construct Test Pits/ Auger Holes	No further construction of test pits/auger holes necessary.
II-E	Perform Sampling and Analysis	
	Soil samples from borings	No further sampling necessary.
	Soil samples from surface soils	No further sampling necessary.
	Soil samples from test pits and auger holes	No further sampling necessary.
	Sediment samples from surface water	No further sampling necessary.
	Ground-water samples	Analyze samples for metals and conduct a GC/MS scan.
	Surface water samples	Analyze samples for metals and conduct a GC/MS scan.
	Air samples	Using the OVA, determine the presence of organics.
	Waste samples	No further sampling necessary.
II-F	Calculate Final HRS	Based on the field data collected in Tasks IIB-IIE, complete the HRS form.

TABLE VII-1 (Continued)
PHASE II WORK PLAN - TASK DESCRIPTION
Rodeway Inn

Tasks		Description of Task
II-G	Conduct Site Assessment	Prepare final report containing Phase I report, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.
II-H	Project Management	Project coordination, administration and reporting.

TABLE VII-2
PERSONNEL RESOURCES BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: RODEWAY INN - NIAGARA FALLS)

TASK DESCRIPTION	TEAM MEMBERS, MANHOURS												TOTAL HOURS	TOTAL $
	PIC	TRB	PM	DPM	PCM	QAM	HSM	FTL	FT	RAAL	RAAT	SS		
II-A UPDATE WORK PLAN	1		4	1		1	1	6		6		8	28	469
II-B CONDUCT GEOPHYSICAL STUDIES													0	0
II-C CONDUCT BORING/INSTALL MONITORING WELLS			2	1		1	4	8	24	2		6	48	611.47
II-D CONSTRUCT TEST PITS/AUGER HOLES													0	0
II-E PERFORM SAMPLING AND ANALYSIS														
SOIL SAMPLES FROM BORINGS													0	0
SOIL SAMPLES FROM SURFACE SOILS													0	0
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES													0	0
SEDIMENT SAMPLES FROM SURFCE WATER													0	0
GROUND-WATER SAMPLES			2	1		1	2	4	16	2		10	38	455.41
SURFACE WATER SAMPLES			1					2	12			2	17	191.18
AIR SAMPLES			1					1	8			2	12	133.66
WASTE SAMPLES													0	0
II-F CALCULATE FINAL HRS			3	3				3	24			16	49	563.23
II-G CONDUCT SITE ASSESSMENT	1	2	4	2				4	16	6	24	32	91	1103.84
II-H PROJECT MANAGEMENT	2		6	2	3	4	4					8	29	500.2
TOTALS	4	2	23	10	3	7	11	28	100	16	24	84	312	4027.99

TABLE VII-3
COST ESTIMATE BREAKDOWN BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: RODEWAY INN - NIAGARA FALLS)

TASK DESCRIPTION	DIRECT LABOR HOURS	DIRECT LABOR COST	OTHER DIRECT COSTS (ODC), $ LAB ANALYSIS	TRAVEL AND SUBSISTANCE	SUPPLIES	EQUIP. CHARGES	SUBCON-TRACTORS	MISC.	SUBTOTAL ODC	TOTAL ($)
II-A UPDATE WORK PLAN	28	469		100	50	50		25	225	694
II-B CONDUCT GEOPHYSICAL STUDIES									0	0
II-C CONDUCT BORING/INSTALL MONITORING WELLS	48	611.47		255	300	75	3600		4230	4841.47
II-D CONSTRUCT TEST PITS/AUGER HOLES									0	0
II-E PERFORM SAMPLING AND ANALYSIS										
SOIL SAMPLES FROM BORINGS									0	0
SOIL SAMPLES FROM SURFACE SOILS									0	0
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES									0	0
SEDIMENT SAMPLES FROM SURFACE WATER									0	0
GROUND-WATER SAMPLES	38	455.41	2667	85	100	75		25	2952	3407.41
SURFACE WATER SAMPLES	17	191.18	2667	85	50	15		15	2832	3023.18
AIR SAMPLES	12	133.66		85	25	15		5	130	263.66
WASTE SAMPLES									0	0
II-F CALCULATE FINAL HRS	49	563.23			50	50		25	125	688.23
II-G CONDUCT SITE ASSESSMENT	91	1103.84			100	200		75	375	1478.84
II-H PROJECT MANAGEMENT	29	500.2		150	150	50		50	400	900.2
TOTALS	312	4027.99	5334	760	825	530	3600	220	11269	15296.99

OVERHEAD=	5840.5855
SUBTOTAL=	21137.5755
FEE=	1691.00604
TOTAL PROJECT COST=	22828.58154

APPENDIX

APPENDIX A
BIBLIOGRAPHY

APPENDIX A

BIBLIOGRAPHY

Rodeway Inn

New York State Museum and Science Service (1970). Geologic Map of New York, Niagara Sheet, Map and Chart Series No. 15.

New York State Museum and Science Service (1977). Quaternary Geology of New York, Niagara Sheet by E.H. Muller, Map and Chart Series No. 28.

Niagara County DOH (1982). Rodeway Inn/LaSalle Yacht Club Site Report.

United States Geological Survey, Topographic Maps. 7.5 Minute Series.

United States Geological Survey, (1984), Sample analyses from USGS report.

QUATERNARY GEOLOGY OF NEW YORK, NIAGARA SHEET

by Ernest H. Muller

Scale 1: 250,000

5 0 5 10 15 20 25 Miles

5 0 5 10 15 20 25 30 35 Kilometers

5 0 5 10 15 20 25 30 35000 Yards

5000 0 5000 10000 15000 20000 25000 30000

MAP DATA SOURCES

1. Bartolomucci, Henry A., 1968, A sedimentological study of the Niagara Falls Moraine. S.U.N.Y. Buffalo, M.A. thesis, 76p.

2. Blackmon, Paul, 1956, Glacial geology of the East Aurora, New York Quadrangle. Univ. of Buffalo, M.S. thesis.

5. [illegible] upland glacial drift border in southern Cattarau- [illegible]

10. Karrow, P.F., 1963, Pleistocene geology of the H Mines, Geol. Rep. 16, 68p. and Map 2033.

11. Kindle, E.M. and F.B. Taylor, 1913, Description of Atlas Folio 190, 25p.

12. Leverett, Frank, 1902, Glacial formations and drain. [illegible] 41 802p

[illegible] County Department [illegible]
Rodeway Inn/LaSalle Yacht Club [illegible]

RHODEWAY INN/LASALLE YACHT CLUB ([illegible])

[illegible]

This site is roughly two acres of reclaimed land located along the Niagara River south of the Best Western Red Jacket Inn, (previously the Rhodeway Inn) at 7001 Buffalo Avenue.

A site sketch is attached.

[illegible]

The area is divided into two parcels. The parcel immediately adjacent to the Inn is owned by the Red Jacket Inn. The parcel [illegible] west of the Inn is owned by Mr. Jack Johnson. The contact at the Red Jacket Inn is Mr. Dan Latawiec.

[illegible]

The Rhodeway Inn is located on the Niagara River in the City of Niagara Falls. The shoreline was extended into the river at a previous [illegible] to provide a lawn area along the river front. An adjacent parcel was [illegible]. Mr. Latawiec at the Red Jacket Inn was unsure of when the area was filled or what materials were used to fill it, although he indicated that it may have been filled with "garbage." The Inter Agency Task Force reported that [illegible] was present.

A director of the adjacent LaSalle Yacht Club was interviewed [illegible] reported that the area may have been filled during the 1940's. Although the LaSalle Yacht Club is implied to own a portion of the disposal area, the Yacht [illegible] indicates that the club has not extended any of its shoreline except for the placement of a concrete seawall.

An inspection of the reclaimed area was made by Niagara County Health Department personnel. The area was found to be entirely [illegible] lawn. A concrete wall was present along the river front. No exposed fill was found and no problems were visible.

[illegible] OF PREVIOUS SAMPLING

There is no record of any previous sampling at this location.

[illegible] OF AERIAL PHOTOGRAPHS

USDA photo # ARE-2GG-52 (1966) shows an area extending into the river, which is believed to be the filled area, however, no useful information [illegible] obtained from this photograph. No earlier photographs were available.

SITE GEOLOGY

A detailed soil survey is unavailable for this area. The nature of the fill is unknown and the fill is expected [illegible] extend to below river level.

Bedrock is Lockport Dolomite. The de[illegible]th to bedrock is unknown.

GROUNDWATER

No information regarding groundwater [illegible]as found. It is assumed that the water table is near river level and tha[illegible] the direction of flow is toward the river.

There are no drinking water wells in this area. The nearest industrial wells are over two miles away.

SURFACE WATER

The reclaimed area is adjacent to the Niagara River. The waste materials here are assumed to be in direct contact [illegible]ith the river water.

The Niagara Falls water intakes are 1,[illegible]00 feet downstream. Industrial intakes are located within one mile downstream.

This site may be susceptible to flood[illegible]g, although the frequency is unknown. There are no wetlands within one m[illegible]le.

AIR QUALITY, FIRE AND EXPLOSION

Since the wastes present are unknown, [illegible]he potential for fi[illegible], explosion or air emissions could not be determined.

It is estimated that from 3,000 to 10,[illegible]0 people live within one mile and over 10,000 people within two miles. Over on[illegible] thousand buildin[illegible] are within a two mile radius.

The nearest residence is one-hundred f[illegible]t away. Residenti[illegible] and commercial areas are adjacent to this site. The neare[illegible] industrial prop[illegible] is roughly 5,000 feet west. There is no agricultural prop[illegible]rty within two mil[illegible].

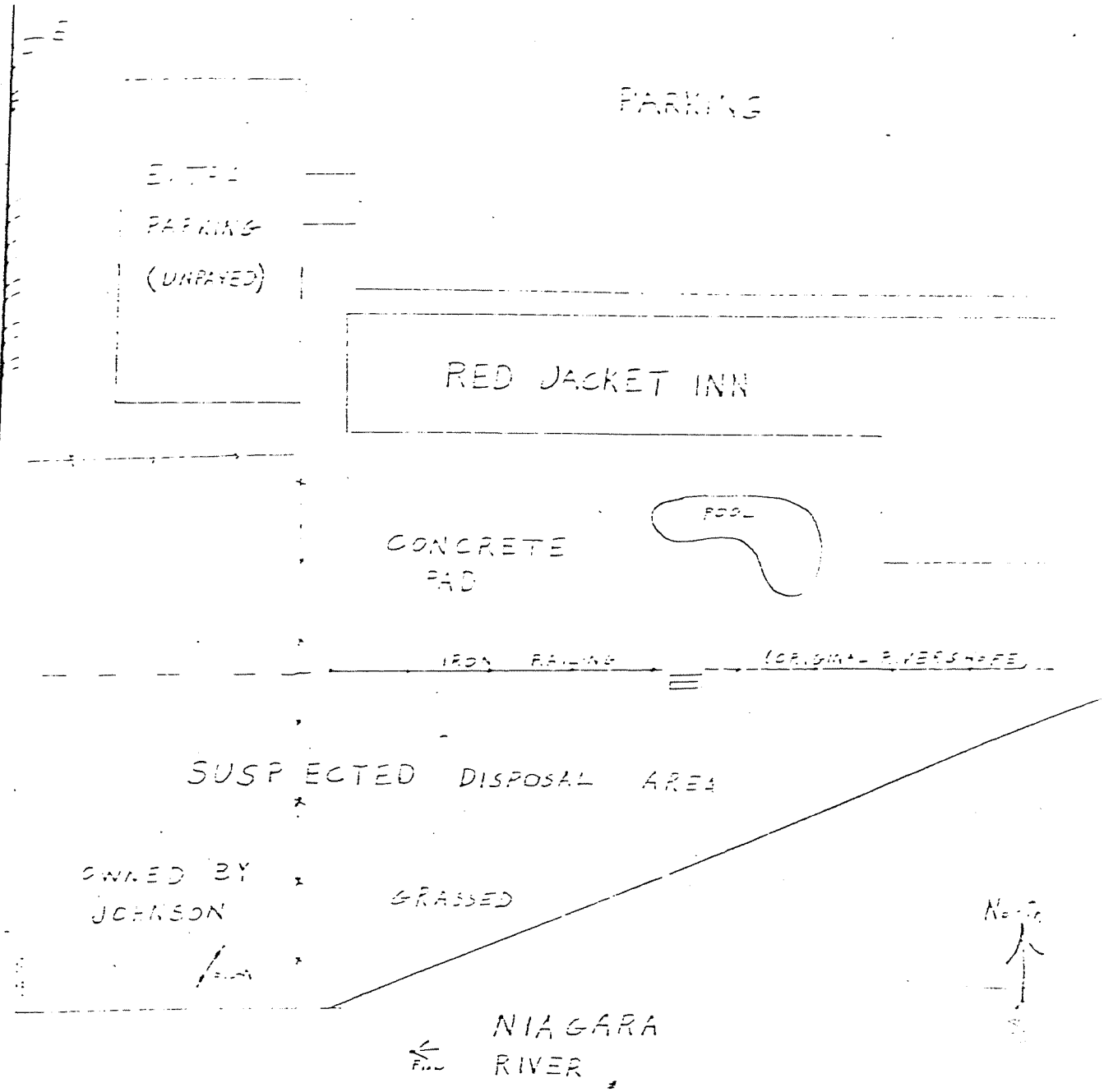
DIRECT CONTACT

Although access to the site is unrestri[illegible]ted, all waste materials appear to be covered.

CONCLUSIONS

The nature of the wastes present, if an[illegible] is unknown. No [illegible]azardous materials are documented as being disposed of he[illegible]. Additional [illegible] needed.

Samples could be obtained from the [illegible] [illegible]



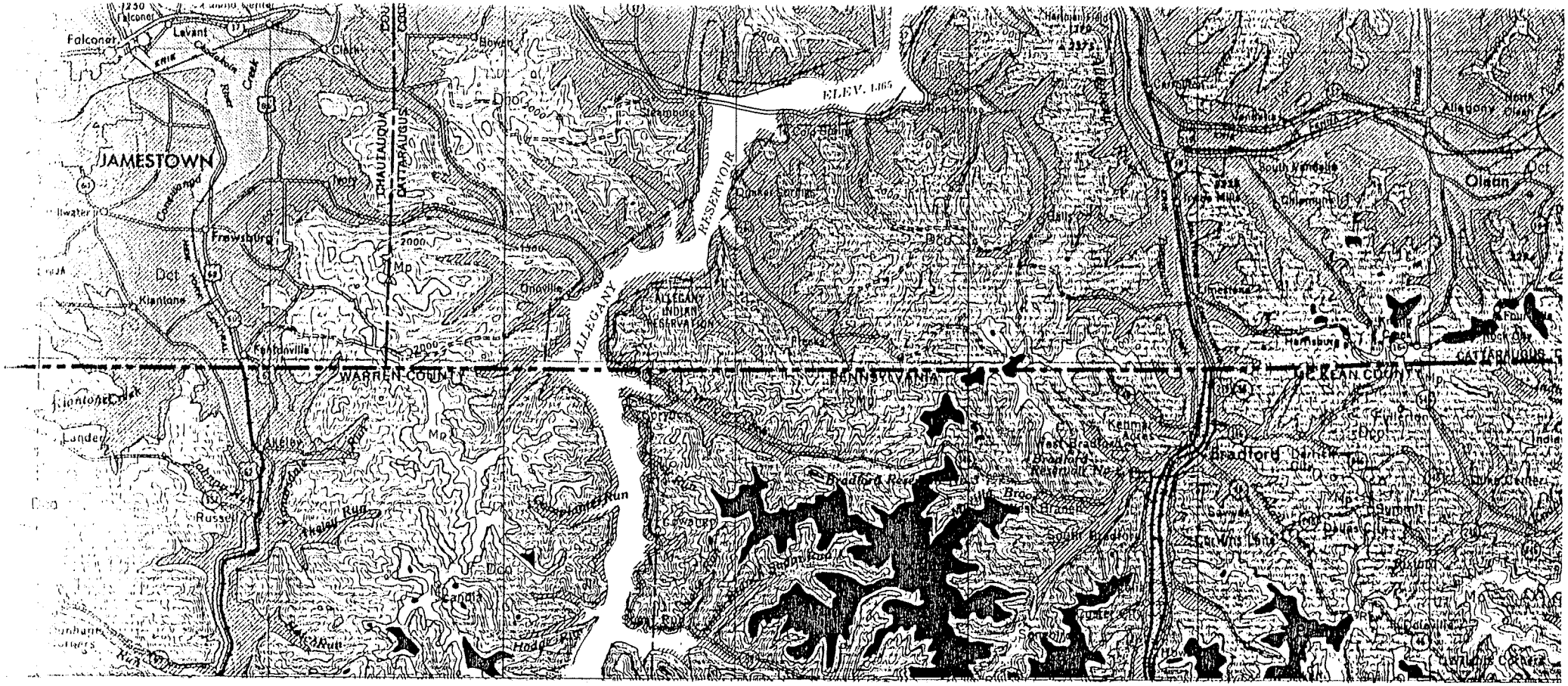
RHODEWAY INN / LA SALLE YACHT CL.

(DEC SITE #932082)

Lot to So.

Shed

ROAD



GEOLOGIC MAP OF NEW YORK

1970

Niagara Sheet

Scale 1:250,000

5 0 5 10 15 Statute Miles 20

5 0 5 10 15 20 25 Kilometers 30

CONTOUR INTERVAL 100 FEET

USGS Sample Results (As Recard) 1984

Table .--Analyses of substrate samples from Rodeway Inn, Niagara Falls, N.Y. (Locations shown in fig. . Concentrations are in ug/Kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)

	Sample number and depth below land surface (ft)	
	1	2
First sampling (06-29-83)	5.0	2.5
Inorganic constituents		
Iron	5,000,000	30,000,000
Mercury	10	50

	Sample number and depth below land surface (ft)	
	1A	2A
Second sampling (05-29-83)	5.0	2.5
Inorganic constituent		
Molecular sulfur(S8)[1]	--	10,000
Organic compounds		
Priority pollutants		
Fluoranthene	--	LT
Bis(2-ethylhexl)phthalate	--	LT
Benzo(a)anthracene	--	LT
Chrysene	--	LT
Phenanthrene	--	LT
Nonpriority pollutants		
Carbondisulfide	LT	--
Terpene[1]	--	2,000
Hydrocarbons[1]	--	17,000

[1] Tentative identification based on comparison with the National Bureau of Standards (NBS) library. No external standard was available. Concentration reported is semiquantitative and is based only on an internal standard. GC/MS spectra were examined and interpreted by GC/MS analysts.

APPENDIX B

NYS REGISTRY FORM

HAZARDOUS WASTE DISPOSAL SITES REPORT
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code: _____

Site Code: 932086

Name of Site: Rodeway Inn/LaSalle Yacht Club Region: 9

County: Niagara Town/City Niagara Falls

Street Address Buffalo Avenue

Status of Site Narrative:

Olin had some broken concrete placed here as fill material.

Type of Site: Open Dump ☐ Treatment Pond(s) ☐ Number of Ponds ___
Landfill ☒ Lagoon(s) ☐ Number of Lagoons ___
Structure ☐

Estimated Size _____ Acres

Hazardous Wastes Disposed? Confirmed ☐ Suspected ☒

*Type and Quantity of Hazardous Wastes:

TYPE	QUANTITY (Pounds, drums, tons, gallons)
None known	

* Use additional sheets if more space is needed.

Name of Current Owner of Site: Rodeway Inn/LaSalle Yacht Club

Address of Current Owner of Site: Niagara Falls, NY

Time Period Site Was Used for Hazardous Waste Disposal:

_____, 19 ____ To Unknown, 19 ____

Is site Active ☐ Inactive ☒
(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☐ Groundwater ☐ None ☐
Surface Water ☐ Soil ☐

Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☐
Nature of Action:

Status of Legal Action: _____ State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ SPDES ☐
Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

None known.

Assessment of Health Problems:

None known.

Persons Completing this Form:

John Kubarewicz

New York State Department of Environmental Conservation

Date August 24, 1983

New York State Department of Health

Date